## Detection of Cytokeratin 5/8 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

## **Reagent and Antibody Information**

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
Trypsin
DAB Chromagen
Hematoxylin

Blocking Serum: Normal Horse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 008-000-001

Avidin / Biotin Blocking Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # SP-2001

Primary Antibody: Mouse Monoclonal Cytokeratin 5/8 Antibody (RCK102)
Santa Cruz Biotechnology, Inc.
Santa Cruz, CA 95060
www.scbt.com
1-800-457-3801
Catalog # sc-32328

Negative Control Serum: Purified Mouse IgG1 Isotype Control Serum

BD Biosciences San Jose, CA 95131 www.bdbiosciences.com 1-877-232-8995 Catalog # 557273

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L)

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # BA-2001 Label Complex: R.T.U. Vectastain Elite ABC Reagent

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-7100

## **Staining Procedure**

Positive Control Tissue: Female reproductive tract – glandular epithelium of the uterus and cervix Stain Localization: Cytoplasmic

1. Deparaffinize and hydrate slides through the following solutions:

Solution	Repetitions	Time		
Xylene	2 times	5 minutes		
100% Ethanol	2 times	3 minutes		
95% Ethanol	2 times	3 minutes		
1X Wash Buffer	2 times	5 minutes		

- 2. Quench endogenous peroxidase by placing the slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 4. Proteolytic-Induced Epitope Retrieval Using Trypsin

Incubate the slides in a **0.01% trypsin** solution in a water bath at 37°C for 20 minutes.

(DO NOT add the trypsin to the 0.05M Tris-HCl • CaCl<sub>2</sub> solution until 5 minutes prior to incubation.

Trypsin looses 75% of its reactivity within 30 minutes at 37°C.)

Rinse the slides in distilled water for 1 minute to stop the enzymatic digestion.

5.	Rinse	the	slides	in 2	changes	of 1	X	Wash	Buffer	for 5	5 minutes	each.
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nanges of 1A wash b	urrer for 5 minutes each.
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sh Buffer.	-
15 minutes at room to	emperature.
1	nal Horse Serum for 20 Date Reconstituted DES. CONTINUE TO ng Kit Exp. Date 15 minutes at room to sh Buffer.

DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

	primary antibody at a 1:25 dilution. Incubate for 1 hour at room temperature.  Exp. Date
at roo	egative control slides, apply the mouse IgG1 control serum at a 1:25 dilution. Incubate for 1 hours temperature.  Exp. Date
9. Rinse	the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
temp	ty the horse anti-mouse secondary antibody at a 1:500 dilution. Incubate for 30 minutes at room erature.  Date Reconstituted
11. Rins	e the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
	y the Vectastain R.T.U Elite Label and incubate for 30 minutes at room temperature.  Date New Kit: yes / no
13. Rins	e the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
(Add	y the DAB chromagen. Incubate in the dark for 6 minutes at room temperature.  1 drop of DAB per ml of substrate)  Exp. Date New Kit: yes / no
15. Rins	e the slides in tap water 3 minutes.
16. Cou	nterstain with Harris Hematoxylin for 20 seconds.
17. Rins	e the slides in tap water until water is clear.

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18. Gently agitate slides in 1X Wash Buffer until the tissues turn blue.

19. Dehydrate through the following solutions:

Solutions	Repetitions	Time		
95% Ethanol	1 time	3 minutes		
100% Ethanol	3 times	3 minutes		
Xylene	2 times	5 minutes		

20. Coverslip